

NETL FY2004 EMP PERFORMANCE METRICS

March 24, 2004
Contact: Dan Cillo

EMP	Objective/Target	Performance Metric	2004 Target	Person (s) Responsible for Collecting Metric Information
Aspect 1 – Waste Generation, Management, and Disposal Practices				
1.1 Non-Hazardous Waste Generation	75% reduction by 2005 and 80% reduction by 2010 based on 1993 baseline (641 tons)	Calculated weight of non-hazardous waste as defined by DOE HQ in pounds, collected quarterly and reported by Fiscal Year.	200 tons (69% reduction)	Bruce Webster, Jay Hoffer
1.2 Hazardous Waste Generation	90% reduction by 2005, using a 1993 baseline (18.46 tons)	Calculated weight of disposed RCRA hazardous wastes based on volume for the Fiscal Year; Weights collected Quarterly in pounds.	3.62 tons (82.5% reduction)	Mike Hospodar, ES&HD; Carmen Romano, EG&G.
1.3 Recycling	Increase recycling of sanitary waste streams to 45% by 2005 and 50% by 2010	Percentage of waste recycled based on the weight of non-hazardous materials recycled; annually reported in October.	41%	Bruce Webster, ES&HD; Jay Hoffer, SAIC; Carmen Romano, EG&G
1.4 Construction Waste	NETL Target: 75% of all construction and demolition wastes segregated for recycling and/or disposal by 2005.	Amount of construction waste recycled.	Modify Construction Contracts, Processes and Language	Tom Snyder and Larry Kincell, SOD; Al Koradi, TJR.

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Aspect 2 – Energy and Fuel Use				
2.1 Energy Conservation	Reduce energy consumption through life-cycle cost effective measures	Number of new or expanded energy conservation or planning efforts	Complete B26 Retrofit	Joe Kanosky, Bernie Avon, SOD
2.2 Energy Use	Reduce energy use per square foot in laboratory and industrial (mixed-use) facilities by 20% by 2005, using a 1990 baseline (369×10^3 BTU per square foot)	Calculated energy consumption based on the metered usage of steam, electric, and gas inputted into EMS4 model; reported annually in October; BTU/square foot	300×10^3 BTU/ft ² (19% reduction)	Joe Kanosky, Bernie Avon, SOD
2.3 Annual Petroleum Fuel Consumption	Reduce annual petroleum consumption (adjusted for mileage) for NETL's vehicular fleet by 20% by 2005 using 2001 baseline (adjusted for mileage) of 0.0367 gallons per mile	Gallons volume of petroleum products used in vehicles divided by total miles driven for all vehicles, gallons/mile	.0312 gallons per mile (15% reduction)	Rick Price, SOD
2.4 Usage Rate of Alternative Fuels	Increase usage rate of alternative fuels to 75% by 2005 and 90% by 2010 in areas where alternative fuel infrastructure is available. Baseline in 2001 is 13.7%	Percentage of gallons of alternative fuels for vehicular fleet taken divided by the total number of gallons of all fuels used.	65%	Rick Price, SOD

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2.5 Energy and Environmental Leadership in New Building Design and Construction	By incorporating sustainable design features and following Executive Order 13123 and DOE Order 430.2A requirements, NETL will attain Leadership in Environmental and Energy Design (LEED) certification and Energy Star designation for its new major building construction.	Progress towards the design of the new building and implementation of the design	Complete energy efficient designs for the two buildings	Nate Campus, SOD
Aspect 3 – Hazardous Materials Procurement, Consumption, and Storage				
3.1 Chemical Inventory	Reduce the chemical inventory (number of containers) by 20% by 2005 based on 2002 baseline (6600 containers)	The number of containers that contain hazardous chemicals in inventory database	5,676 containers (14% reduction)	Angela Cooper, ES&HD; Sheila Propst, EG&G
Aspect 4 - Industrial Wastewater Treatment Facility Operations/ Discharges				
4.1 Notices of Violation (NOVs)	To reduce the number of NOV's issued	Individual permit (e.g., parameter) violations associated with the Industrial Sewer Use Pretreatment Permit	0	Bruce Webster and Eli George, ES&HD; Rich Jeffries, EG&G

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Aspect 5 – Air Emissions				
5.1 Large Chillers Using CFC's	By 2005, retrofit or replace 100% of chillers greater than 150 tons of cooling capacity and manufactured before 1984 and use Class 1 refrigerants (Baseline number of chillers fitting this category = 2)	Number of large chillers replaced.	Zero units to be replaced in 2004	Joe Kanosky and Bernie Avon, SOD
5.2 Class 1 Refrigerants	Eliminate use of Class I refrigerants by year 2010, to the extent economically practicable, and to the extent that safer alternatives are available (inventory = 190 lbs)	Pounds of Class 1 refrigerants that remain.	148 lbs	Joe Kanosky and Bernie Avon, SOD
5.3 Greenhouse Gases	Reduce greenhouse gas emissions attributed to facility use through life-cycle cost effective measures by 25% by 2005 and 30% by 2010, using 1990 as a baseline (67.4 million lbs)	Using FY2002 as a baseline, total calculated emissions of CO ₂ , CO, methane and ammonia from NETL Operations; annual - October; lbs.	51.2 million lbs (24% reduction)	Joe Kanosky and Bernie Avon, SOD
5.4 Alternate Fueled Vehicles	Acquire at least 75% of light-duty vehicles as alternative fueled vehicles by 2005 and 90% by 2010	Percentage of light duty vehicles that are fueled by alternate fuels	75%	Rick Price, SOD

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5.5 Emissions of Toxic Release Inventory (TRI) Chemicals	To reduce emissions of chemicals on the TRI List by 20% by 2005 using 1997 as baseline (3,850 lbs)	Using a baseline of 3850 pounds (1997 baseline year), reduce the mass of air toxics emitted from selected point sources; annual - October; lbs.	3,176 lbs (17.5% reduction)	Eli George and Rodger Dotson, ES&HD, Allen Wells, EG&G
5.6 VOC Emissions	Reduce VOC emissions by 50% by 2005 using 2002 baseline (42 lbs)	The baseline is 42 one-pound cans of paint used in FY2002, record the number of paint cans used in the spray booth for painting operations at the Morgantown site; annual - October; lbs	28 lbs released to atmosphere (34% reduction)	Rodger Dotson, ES&HD
Aspect 6 – Toxic Chemicals and Energy Releases				
6.1 Chemical Handling Facility	To improve the way the CHF stores and handles chemicals	FY2002 is baseline year. Occurrences (ORPS), accidents (CAIRS), environmental releases, and near misses associated with chemical handling facility operations; annual -- October; number	Construction complete	Mike Hospodar, Eli George, and Andy Sivak, ES&HD

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Aspect 7 – Surface Water and Storm Water Discharge				
7.1 Water Discharge	To better understand the impacts of NETL and nearby off-site activities on surface water/storm water resources	N/A	N/A	NETL understands the contributors which are managed through the surface water and construction programs. No objectives/targets are needed for this significant aspect.
Aspect 8 – Green Purchasing				
8.1 Buying Green - Warehouse	Increase NETL storeroom purchases of items in EPA-designated categories to 100%	Percent of storeroom items that are EPA-designated recycled items that are actually purchased with recycled content; annual -- October; percentage	100%	John Augustine, AAD
8.2 Buying Green – Credit Cards	Determine the baseline for potential “green” purchases made with credit cards	Percentage of products purchased through credit cards that are EPA-designated recycled items that are actually purchased with recycled content; annual --October; percentage	Determine baseline	John Augustine, AAD

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Aspect 9 – Offsite Noise Generated Onsite				
9.1 Off-site Noise	Using 2002 as baseline year, reduce the no. of noise-related (valid) complaints from neighbors and the no. of demonstrated exceedences of local noise ordinances due to normal site activities based on monitoring activities	N/A	N/A N/A	There have been no complaints for 2 years, so objectives/targets are not needed for 2004. NETL will maintain and measure present noise levels through the environmental noise control program.
Aspect 10 – Non-Industrial Land Use				
10.1 Land Use	To conserve and enhance NETL's non-industrial lands	FY2002 is baseline year. Area of land classified as non-industrial at NETL; annual -- October; acres	Implement 2 Recommendations from the Non-Industrial Land Use Committee	Dean Stobbe, SOD